TABLE OF CONTENTS

Volume 198

ARTICLES

BARONE, F., DI FIORE, L., MILANO, L., PIROZZI, L. and RUSSO, G. / Search for Contact Systems among EB-Type Binaries 321

CAIMMI, R. / Inertia Tensor and Tidal Transfer of Angular Momentum for Special Ellipsoidal Mass Distributions 129

CHAKRABORTY, S. and NANDY, G. C. / Cosmological Studies in Bianchi II, VIII Space-Time 299

CONTINI, M. / Analysis of Dust through Extinction 29

EL-NAWAWY, M. S., SHALABIA, O. M., ALI, A., and AIAD, A. / New Calculations of ID Contraction in the Non-Isothermal Regime 237

GARCIA DE ANDRADE, L. C. / Torsion, Massive Electrodynamics and Gravitation Induced by Scalar Fields 79

GUPTA, A. S. / Hydromagnetic Stability of a Stratified Parallel Flow Varying in Two Directions 95

HAMID M. K. AL-NAIMIY and AHMAD M. A. AL-HINDAWY / A New Set of Geometrical and Physical Elements of the Eclipsing Variable PP Lacertae 231

HOLBA, Á., HORVÁTH, I., LUKÁCS, B., and PAÁL, G. / Cosmological Parameters and Redshift Periodicity 111

HOYLE, F. / Light Element Synthesis in Planck Fireballs 177

HOYLE, F. / Mathematical Theory of the Origin of Matter 195

KOMŽÍK, R., HRIC, L. and GRYGAR, J. / Spectroscopic and Photometric Detection of Interacting Processes and Their Evolution in the Eclipsing Binary TX UMa 149

KOROTKII, V.A. and OBUKHOV, YU N. / Rotating and Expanding Cosmology in ECSK-Theory 1

MOHAMED ABD-ELSALAM MARIE / Membership in the Open Cluster NGC 2301 121

ORIOL, R. / Analysis of Neckel and Chini Standard Stars in the *UBVRI* Photometric System 281

PILLAY, R. and BHARUTHRAM, R. / Large Amplitude Solitons in a Multi-Species Electron-Positron Plasma 85

ROY, S. R. and PRASAD, A. / Inhomogeneous Generalizations of Bianchi Type-VI$_h$ Universes with Co-Moving Perfect Fluid and Radiation 101

SAMOKHIN, M.V. / The Dependence of the Value of the Field-Aligned Current in the Ionosphere on the Local Time for Low Velocity of Convection 13

SHARMA, R. C. and RAJPUT, A. / Thermal-Convective Instability of a Composite Rotating Stellar Atmosphere in the Presence of a Variable Magnetic

Field, Medium Permeability and Solute Gradient 21
SOKOLOV, V. V. / Scalar Gravitational Waves and Observational Limitations for the Energy-Momentum Tensor of a Gravitational Field 53
TAKASHIMA, T. and MASUDA, K. / Simulation of Atmospheric Effect on the Emergent Radiation over a Checkerboard Type of Terrain 253
TREUMANN, R. A. / Redshifts and Intrinsic Time 71
VIIK, T. / External Radiation Field in Rayleigh-Cabannes Atmospheres with Constant and Linear Sources 265
YASUNORI NEJOH / Nonlinear Periodic and Algebraic Ion-Acoustic Solitary Waves in a Relativistic Plasma 309
YOUNG SHUK AHN / Photometric Observations of NY Cephei 137

LETTERS TO THE EDITOR:
BAPTISTA, J. P. / Some Remarks on the Evolution of the Higgs Field in an Inflationary Cosmology 341
WICKRAMASINGHE, N. C. / Iron Whiskers and Ripples in the Microwave Background 161

The Use of the "SPACEKAP" Style File for Delivering Manuscripts in LaTeX 347

BOOK REVIEWS
H. R. Miller and P. J. Wiita (eds.), *Variability of Active Galactic Nuclei* (V. KARAS) 165
C. W. Mauche (ed.), *Accretion-Powered Compact Binaries* (V. KARAS) 165
S. Casertano, P. D. Sackett, and F. H. Briggs (eds.), *Warped Disks and Inclined Rings around Galaxies* (V. KARAS) 166
Klaus Winter (ed.), *Neutrino Physics* (M. J. THOMSON) 166

List of Forthcoming Papers 353
Volume Contents 355